## Amendments to the Claims:

Please amend the claims as follows:

1.-17. (Canceled)

## 18. (Currently Amended) A memory module, comprising:

a memory module controller to enable a plurality of memory devices to be coupled to the system memory bus communicate data between a system memory bus and a memory device regardless of any difference of signal impedance or operating voltage between the memory device and the system memory bus, the plurality of memory devices each having different signal quality requirements from each other, the plurality of memory module controller to receive a memory request signal from a system memory controller over [[a]] the system memory bus, in response to the memory request, the memory medule controller to generate a separate signal addressed to and served by at least one of the plurality of memory devices in a manner, wherein the memory module controller separates the plurality of memory devices from the system memory sontroller and the system memory bus.

19. (Previously Presented) The memory module of claim 18, wherein the memory module controller further comprises a clock generator to generate a clock signal to drive the separate signals addressed to and served by the memory device in a manner controlling the plurality of memory devices, wherein the clock signal is different than a clock signal of the memory bus.

- 20. (Currently Amended) The memory module of claim 19, wherein the memory module controller further comprises a request handling logic to examine the memory request to determine whether the memory request is addressed to at least one of the memory devices device and to ignore the memory request if the memory request is not addressed to any of the memory devices device.
- 21. (Currently Amended) The memory of claim 20, wherein the memory module controller further comprises a power management unit to control power supplied to the memory devices device.
- 22. (Currently Amended) The memory module of claim 21, wherein the <del>plurality of</del> memory <del>devices</del> <u>device</u> and the memory bus operate at different power voltages.
- 23. (Currently Amended) The memory module of claim 21, wherein the power management unit reduces at least a portion of the power to the memory devices device, if the memory request is not addressed to any of the memory devices device.
- 24. (Currently Amended) The memory module of claim 21, wherein the memory module controller further comprises a control logic coupled to the request handling logic, the clock generator, and the power management unit, the control logic configured to decouple the memory devices device from the memory bus if the memory request is not addressed to any of the memory devices device.
- 25. (Currently Amended) The memory module of claim 24, wherein in response to a signal from the request handling logic indicating that the memory request is not

addressed to any of the memory devices device, the control logic instructs the clock generator to alter a frequency of the clock signal to the memory devices device.

- 26. (Currently Amended) The memory module of claim 25, wherein the control logic further instructs the power management unit to disable the clock generator if the memory request is not addressed to any of the memory devices device, which in turn reduces the power dissipation of the memory devices device.
- 27. (Currently Amended) The memory module of claim 18, further comprising a bus interconnecting the plurality of memory devices device and the memory module controller, the bus having separate address, data, and control signal lines than the system memory bus.
- 28. (Previously Presented) The memory module of claim 18, wherein the memory module is a dual inline memory module (DIMM).
- 29. (Previously Presented) The memory module of claim 18, wherein the memory module is a single inline memory module (SIMM).
- 30. (Currently Amended) The memory module of claim 18, wherein the plurality of memory devices comprise device comprises one of volatile memory devices and non-volatile memory devices.